

NASA Earth Science Applied Sciences Program

2016 Wildland Fire Program Annual Review Meeting



Meeting Logistics



- Breakfast, Lunch and Break snacks in adjacent suite: Tues – Thurs;
- By Lunch Break Today (Tues), fill out lunch order for NIFC field trip on Thursday;
- Check off box on same sheet for those traveling by bus to NIFC;
- Check box for Group Dinner on Wednesday night (6:45 PM) at Brickyard Restaurant;
- POC: Vince Ambrosia cell: 408.666.7609

Objective / Goals of Meeting



OBJECTIVES

- Inform on the NASA Wildfire Program Projects;
- Inform on partner affiliated programs (USFS, JFSP, etc.);
- Encourage Collaborations
- Help NASA to increase awareness and use of EO data by the wildfire community

GOALS

- Build new relationships / knowledge;
- Be exposed to new ideas / concepts; Learn something new each day!
- Walk away from the meeting with a sense of accomplishment and excitement for the coming year!
- Be relaxed and have fun while learning!

NASA Wildfire Management Team



Lawrence Friedl:

NASA Applied Sciences Program Director / Wildfire Program Manager

Amber Soja:

Associate Wildfire Program Manager

Vince Ambrosia:

Associate Wildfire Program Manager

Introductions: All



Name:

Organization Affiliation:

Role at Meeting: (PI Presenter, Cheerleader, etc.)

What Are You Looking Forward to This Week?

2011 NASA ASP Wildland Fire Solicitation



ROSES 2011; A.35 Wildland Fire

The objective of this solicitation is to select applications and applied research projects to improve decision-making activities and actions on topics related to wildland fires, such as wildfires, rangeland fires, and prescribed fires. Additionally, all facets of the fire phase (pre-, active-, and post-fire) are to be considered.

Successful projects will advance organizations' use and application of Earth observations in analysis and assessments, management strategies and actions, business practices, and policy analysis and decisions associated with wildland fires.

ROSES-2011 A.35 Phase II Projects



Zachary Holden / USDA Forest Service:

A Prototype System for Predicting Insect and Climate-Induced Impacts on Fire Hazard in Complex Terrain;

Sher Schranz / NOAA:

Wildland Fire Behavior and Risk Prediction;

James Vogelmann / USGS EROS Center

Improving National Shrub and Grass Fuel Maps Using Remotely Sensed Data and Biogeochemical Modeling to Support Fire Risk Assessments;

Birgit Peterson / USGS EROS Center:

Enhanced Wildland Fire Management Decision Support Using Lidar-Infused LANDFIRE Data;

Karyn Tabor / Conservation International Foundation

An Integrated Forest and Fire Monitoring and Forecasting System for Improved Forest Management in the Tropics;

Wilfrid Schroeder / University of Maryland

Development and Application of Spatially Refined Remote Sensing Active Fire Data Sets in Support of Fire Monitoring, Management and Planning;

Stephen Howard / USGS EROS Center:

Utilization of Multi-Sensor Active Fire Detections to Map Fires in the US;

Mary Ellen Miller / Michigan Tech Research Institute (MTRI):

Linking Remote Sensing and Process-Based Hydrological Models to Increase Understanding of Wildfire Effects on Watersheds and Improve Post-Fire Remediation Efforts;

Keith Weber / Idaho State University

RECOVER: Rehabilitation Capability Convergence for Ecosystem Recovery;

Tuesday Morning Agenda



9:30 AM: PIs / teams brief their projects (~15 minutes each (12 minutes for slides; 3-minutes for Q&A); Partner entities engagement as well)

Projects:

(9:30 - 9:45) Zack Holden: A Prototype System for Predicting Insect and Climate-Induced Impacts on Fire Hazard in Complex Terrain;

(9:45 – 10:00) <u>Karyn Tabor</u>: An Integrated Forest and Fire Monitoring and Forecasting System for Improved Forest Management in the Tropics;

(10:00 – 10:15) <u>James Vogelmann</u>: Improving National Shrub and Grass Fuel Maps Using Remotely Sensed Data and Biogeochemical Modeling to Support Fire Risk Assessments;

(10:15 – 10:30) <u>Birgit Peterson</u>: Enhanced Wildland Fire Management Decision Support Using Lidar-Infused LANDFIRE Data:

(10:30 - 10:45) Keith Weber: RECOVER: Rehabilitation Capability Convergence for Ecosystem Recovery;

10:45 - 11:00 AM Break (Breakfast Foods still available)

Projects:

(11:00 - 11:15) Stephen Howard: Utilization of Multi-Sensor Active Fire Detections to Map Fires in the US;

(11:15 - 11:30) Wilfrid Schroeder: Development and Application of Spatially Refined Remote Sensing Active Fire Data Sets in Support of Fire Monitoring, Management and Planning;

(11:30 – 11:45) Mary Ellen Miller: Linking Remote Sensing and Process-Based Hydrological Models to Increase Understanding of Wildfire Effects on Watersheds and Improve Post-Fire Remediation Efforts;

(11:45 - 12:00) Sher Schranz: Wildland Fire Behavior and Risk Prediction;

Tuesday Afternoon Agenda



1:00 – Special Projects:

(1:00 – 1:15) <u>Stacy Drury</u>: AFTEERS: Automated Fuels Treatment Effectiveness Evaluation Using Remote-Sensing Information;

(1:15 - 1:30) Natasha Stavros: Rapid Response to the 2014 King Fire;

1:30 – 2:30 PM: Dedicated time for project collaboration discussions and interaction with other PIs, look for synergies, opportunities to interact with visitors / guest

2:30 - 3:00 PM: Lawrence Friedl: NASA Earth Science Applied Sciences Program: Overview and Directions

3:00 – 3:15 PM: <u>David Green</u>: NASA Disasters Overview

3:15 – 3:30 PM Break (Snacks Provided)

3:30 - 4:00 PM: E. Hinkley: USFS HQ Program Perspective

4:00 - 4:30 PM: Amber Soja: Wildfire Decadal Survey Activities;

Stacy Drury: STI Decadal Survey Wildfire Community Interview Findings

4:30 – 5:15 PM: Plenary Discussion on Projects, Wildland Fire Community, and Decadal Survey (led by L. Friedl)

5:15 PM: Feedback form for Day 1

Final Logistics and Close of Meeting for Day

Wednesday Morning Agenda



~8:00 - 8:45 AM (Continental Breakfast provided in meeting Room)

8:45 - 9:00 AM: V. Ambrosia, A. Soja, L. Friedl: Logistics / Welcome / New Introductions

9:00 – 9:30 AM: <u>Eric Lindquist:</u> A Socioeconomic (mostly socio, with some political) Perspective on Impacts of Earth Observations and the Use of Science in Decision Making

9:30 – 10:30 AM: <u>Breakout Exercise / Thinking about Wildland Fire Science and Management With a Socioeconomic Slant</u> (Led by E. Lindquist)

10:30 - 10:45 AM: Break (Breakfast foods still available)

10:45 – 11:15 AM: Everett Hinkley/Brad Quayle: USFS National RS Program Mgr & RSAC Program Updates;

11:15 – 11:45 AM: Cindy Miner: USFS PNW Communications and Applications Group;

11:45 - 12:15 PM: Cindy Schmidt: NASA ARSET and Workshop Development:

12:15 PM – 1:15 PM: Lunch (provided on-site)

Wednesday Afternoon Agenda



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12:15 PM – 1:15 PM: Lunch (provided on-site)
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1:15 – 1:45 PM: John Dwyer: ESA SENTINEL Data Use / Access;

1:45 – 2:15 PM: Lindsey Harriman (EROS): LP-DAAC Access and Capabilities;

2:15 – 3:00 PM: J. Cissel & E. Brunson (JFSP): JFSP, FSEN, and FASMEE Briefing;

3:00 - 3:15 PM: PM Break (Snacks Provided)

3:15 – 4:30 PM: Breakout Discussions on NASA Earth Science Data Information Sheets, including Input and Creative Ideas for one Serving Wildfire Community (users, partners, etc.) (Led by L. Friedl)

4:30 - 5:15 PM: Report Outs of Groups

5:15 PM Feedback form for Day 2 Final Logistics and Close of Meeting for Day

6:45 PM: Group Dinner (Brickyard Restaurant (Capital Room))
http://www.brickyardboise.com

Thursday NIFC Visit Agenda



7:30 - 8:30 AM (Continental Breakfast provided in Meeting Room) NASA / USFS Logistics / Comments for day / Pick up Box Lunches

8:30 – 8:40 AM: Load on Bus for departure to NIFC

9:00 AM: Arrive at NIFC (Jack Wilson Building, NICC Conference Room)

9:00 - 9:15 AM: Welcome to NIFC (Susan Stingley-Russel)

9:15 - 9:45 AM: Tour the NICC (Susan Stingley-Russel / Chuck Wamack);

9:45 – 10:15 AM: IRWIN (Jaymee Fojtik)

10:15 - 10:30 AM: Break

10:30 - 11:00 AM: Predictive Services Program (Ed Delgado)

11:00 - 11:30 AM: F&AM Geospatial Group (Sean Triplett/Jill Kuenzi)

12:00 – 12:30 PM: Box Lunch and Wildland Fire Management Research, Development & Applications Briefing (Lisa Elenz)

Thursday NIFC Visit Agenda



12:30 – 1:45 PM: NIROPS Briefing and Walk-Through (Woody Smith / Charles Kazimir / Tom Mellin, Dan Johnson)

1:45 – 2:30 PM: RAWS Program BLM Remote Sensing/Fire Weather Support Unit (Herb Arnold)

2:30 - 3:00 PM: Smoke Jumper Base Tour (Todd Johnson)

3:00 – 3:30 PM: Firefighter Memorial Tour (Jennifer Jones)

3:45 – 4:00 PM: Return to Grove Hotel

4:15 - 5:15 PM Feedback form for Team Meeting

Group Forum: What are the key takeaway messages of the meetings? What direction does the community want NASA management to take in 2016 and into 2017? What plans do teams want us to develop (sessions at a particular conferences, etc.);

MEETING ADJURNS!!